CLAIMS

- 1. A backlight system, comprising:
 - a light guide plate;
 - at least a light source disposed at at least one side of the light guide plate;
 - a diffusion plate and;

a reflection polarizer, which lets light polarized in one certain direction pass, and reflects light polarized in a polarization direction perpendicular to the said certain direction;

wherein the light guide plate, the diffusion plate and the reflection polarizer are stacked up one on top of the other, and a plurality of prisms are disposed on a surface of the diffusion plate, which forms a plurality of V-shaped grooves.

- 2. The backlight system as claimed in claimed 1, wherein the plurality of prisms are disposed parallel to one another.
- 3. The backlight system as claimed in claimed 2, wherein the parallel prisms are spaced apart at equal intervals.
- 4. The backlight system as claimed in claimed 1, wherein the prisms are each in a shape of a pyramid and are distributed evenly.
- 5. The backlight system as claimed in claimed 1, wherein a reflection plate is disposed under the light guide plate.
- 6. The backlight system as claimed in claimed 1, wherein a reflection film is formed on the light guide plate.
- 7. The backlight system as claimed in claimed 1, further comprising a light source cover which surrounds the light source on three sides.
- 8. The backlight system as claimed in claimed 1, wherein the light guide plate is a

flat plate.

- 9. The backlight system as claimed in claimed 1, wherein the light guide plate is in a shape of a wedge.
- 10. The backlight system as claimed in claimed 1, wherein a brightness enhancement film is disposed between the diffusion plate and the reflection polarizer.
- 11. A backlight system, comprising:
 - a light guide plate;
 - at least a light source disposed at at least one side of the light guide plate;
 - a diffusion plate located above said light guide plate; and
- a reflection polarizer, which allows S polarized lights to pass, while reflects P polarized lights; located above said diffusion plate; wherein

the light guide plate, the diffusion plate and the reflection polarizer are stacked one another in sequence, and light conversion elements are disposed on a surface of the diffusion plate and facing toward the polarizer to transform the reflected P polarized light thereabouts to a common light and successively redirect said commonly light toward the polarizer without substantial involvement of the diffusion plate and the light guide plate.

12. A method of making a backlight system, comprising steps of:

providing a light guide plate;

positioning a light source beside said light guide plate;

positioning a diffusion plate above said light guide plate;

positioning a reflection polarizer above said diffusion plate which allows S polarized lights to pass and reflects P polarized lights; and

forming a plurality of light conversion elements on the diffusion plate facing toward the polarizer, so as to transform the reflected P polarized light to a common light thereabouts and successively redirect said common light toward said reflection polarizer without substantial involvement of at least the light guide plate.